

SEQUENCE LISTING



B
8/10/90

<110> Pinsky, David J.
Stern, David
Rose, Eric
Solomon, Robert A.
Schmidt, Ann Marie

<120> METHODS FOR TREATING AN ISCHEMIC DISORDER AND IMPROVING
STROKE OUTCOME

<130> 51917-B

<140> 09/053,871

<141> 1998-04-01

<160> 22

<170> PatentIn Ver. 2.1

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<212> DNA

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<223> Description of Artificial Sequence:
Oligonucleotides for producing Factor IXmi.

<220>

<223> NNN=the complement to a DNA codon for any one of
the standard amino acids other than serine.

<400> 1

tacagttcct ctannncccc ctggggtac

29

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<211> 30

<212> DNA

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<223> Description of Artificial Sequence:
Oligonucleotides for producing Factor IXmi.

<220>

<223> NNN=the complement to a DNA codon for any one of

174

79

the standard amino acids other than serine.

<400> 2

tacagttcct ctannncccc ctggggtaca

30

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<211> 31

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<213> Artificial Sequence

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<223> Description of Artificial Sequence:

Oligonucleotides for producing Factor IXmi.

<220>

<223> NNN=the complement to a DNA codon for any one of
the standard amino acids other than serine.

<400> 3

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31

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<211> 30

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:

Oligonucleotides for producing Factor IXmi.

<220>

<223> NNN=the complement to a DNA codon for any one of
the standard amino acids other than serine.

<400> 4

gtacagttcc tctannnccc cctggggtac

30

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<211> 31

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:

Oligonucleotides for producing Factor IXmi.

79

80

<220>

<223> NNN=the complement to a DNA codon for any one of
the standard amino acids other than serine.

<400> 5

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31

<210> 6

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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:
Oligonucleotides for producing Factor IXmi.

<220>

<223> NNN=the complement to a DNA codon for any one of
the standard amino acids other than serine.

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32

<210> 7

<211> 32

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:
Oligonucleotides for producing Factor IXmi.

<220>

<223> NNN=the complement to a DNA codon for any one of
the standard amino acids other than serine.

<400> 7

agttacagtt cctctannnc cccctggggt ac

32

<210> 8

<211> 33

<212> DNA

<213> Artificial Sequence

780
81

<220>

<223> Description of Artificial Sequence:

Oligonucleotides for producing Factor IXmi.

<220>

<223> NNN=the complement to a DNA codon for any one of
the standard amino acids other than serine.

<400> 8

agttacagtt cctctannnc cccctggggt aca

33

<210> 9

<211> 34

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:

Oligonucleotides for producing Factor IXmi.

<220>

<223> NNN=the complement to a DNA codon for any one of
the standard amino acids other than serine.

<400> 9

agttacagtt cctctannnc cccctggggt acaa

34

<210> 10

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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:

Oligonucleotides for producing Factor IXmi.

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<223> NNN=the complement to a DNA codon for any one of
the standard amino acids other than aspartic acid
and cysteine.

<400> 10

attcatgtta gtannntaac gcgaagacc

29

<210> 11

481

82

<211> 30
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<223> Description of Artificial Sequence:
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<220>

<223> NNN=the complement to a DNA codon for any one of
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and cysteine.

<400> 11

attcatgtta gtannntaac gcgaagacct

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<210> 12

<211> 31

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:
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<223> NNN=the complement to a DNA codon for any one of
the standard amino acids other than aspartic acid
and cysteine.

<400> 12

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31

<210> 13

<211> 30

<212> DNA

<213> Artificial Sequence

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the standard amino acids other than aspartic acid
and cysteine.

1582

83

<400> 13

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30

<210> 14

<211> 31

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:

Oligonucleotides for producing Factor IXmi.

<220>

<223> NNN=the complement to a DNA codon for any one of the standard amino acids other than aspartic acid and cysteine.

<400> 14

tattcatgtt agtannntaa cgcgaagacc t

31

<210> 15

<211> 32

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:

Oligonucleotides for producing Factor IXmi.

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<223> NNN=the complement to a DNA codon for any one of the standard amino acids other than aspartic acid and cysteine.

<400> 15

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32

<210> 16

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:

83

84

Oligonucleotides for producing Factor IXmi.

<220>

<223> NNN=the complement to a DNA codon for any one of the standard amino acids other than aspartic acid and cysteine.

<400> 16

ttattcatgt tagtannnta acgcaagac c

31

<210> 17

<211> 32

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence:
Oligonucleotides for producing Factor IXmi.

<220>

<223> NNN=the complement to a DNA codon for any one of the standard amino acids other than aspartic acid and cysteine.

<400> 17

ttattcatgt tagtannnta acgcaagac ct

32

<210> 18

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
Oligonucleotides for producing Factor IXmi.

<220>

<223> NNN=the complement to a DNA codon for any one of the standard amino acids other than aspartic acid and cysteine.

<400> 18

ttattcatgt tagtannnta acgcaagac ctt

33

<210> 19

184
85

<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotides for producing Factor IXmi.

<220>
<223> NNN=the complement to a DNA codon for any one of
the standard amino acids other than histidine and
cysteine.

<400> 19
ttacattgac gacggnnnac acaactttga cca 33

<210> 20
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<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:
Oligonucleotide Primer for producing Factor IXmi.

<400> 20
gtacagttcc tctacgaccc cctggggtac 30

<210> 21
<211> 461
<212> PRT
<213> Homo Sapien

<400> 21
Met Gln Arg Val Asn Met Ile Met Ala Glu Ser Pro Gly Leu Ile Thr
1 5 10 15
Ile Cys Leu Leu Gly Tyr Leu Leu Ser Ala Glu Cys Thr Val Phe Leu
20 25 30
Asp His Glu Asn Ala Asn Lys Ile Leu Asn Arg Pro Lys Arg Tyr Asn
35 40 45
Ser Gly Lys Leu Glu Glu Phe Val Gln Gly Asn Leu Glu Arg Glu Cys
50 55 60

85
86

Met	Glu	Glu	Lys	Cys	Ser	Phe	Glu	Glu	Ala	Arg	Glu	Val	Phe	Glu	Asn	65	70	75	80
Thr	Glu	Arg	Thr	Thr	Glu	Phe	Trp	Lys	Gln	Tyr	Val	Asp	Gly	Asp	Gln	85	90	95	
Cys	Glu	Ser	Asn	Pro	Cys	Leu	Asn	Gly	Gly	Ser	Cys	Lys	Asp	Asp	Ile	100	105	110	
Asn	Ser	Tyr	Glu	Cys	Trp	Cys	Pro	Phe	Gly	Phe	Glu	Gly	Lys	Asn	Cys	115	120	125	
Glu	Leu	Asp	Val	Thr	Cys	Asn	Ile	Lys	Asn	Gly	Arg	Cys	Glu	Gln	Phe	130	135	140	
Cys	Lys	Asn	Ser	Ala	Asp	Asn	Lys	Val	Val	Cys	Ser	Cys	Thr	Glu	Gly	145	150	155	160
Tyr	Arg	Leu	Ala	Glu	Asn	Gln	Lys	Ser	Cys	Glu	Pro	Ala	Val	Pro	Phe	165	170	175	
Pro	Cys	Gly	Arg	Val	Ser	Val	Ser	Gln	Thr	Ser	Lys	Leu	Thr	Arg	Ala	180	185	190	
Glu	Thr	Val	Phe	Pro	Asp	Val	Asp	Tyr	Val	Asn	Ser	Thr	Glu	Ala	Glu	195	200	205	
Thr	Ile	Leu	Asp	Asn	Ile	Thr	Gln	Ser	Thr	Gln	Ser	Phe	Asn	Asp	Phe	210	215	220	
Thr	Arg	Val	Val	Gly	Gly	Glu	Asp	Ala	Lys	Pro	Gly	Gln	Phe	Pro	Trp	225	230	235	240
Gln	Val	Val	Leu	Asn	Gly	Lys	Val	Asp	Ala	Phe	Cys	Gly	Gly	Ser	Ile	245	250	255	
Val	Asn	Glu	Lys	Trp	Ile	Val	Thr	Ala	Ala	His	Cys	Val	Glu	Thr	Gly	260	265	270	
Val	Lys	Ile	Thr	Val	Val	Ala	Gly	Glu	His	Asn	Ile	Glu	Glu	Thr	Glu	275	280	285	
His	Thr	Glu	Gln	Lys	Arg	Asn	Val	Ile	Arg	Ile	Ile	Pro	His	His	Asn	290	295	300	
Tyr	Asn	Ala	Ala	Ile	Asn	Lys	Tyr	Asn	His	Asp	Ile	Ala	Leu	Leu	Glu	305	310	315	320

86
87

Leu Asp Glu Pro Leu Val Leu Asn Ser Tyr Val Thr Pro Ile Cys Ile
 325 330 335

Ala Asp Lys Glu Tyr Thr Asn Ile Phe Leu Lys Phe Gly Ser Gly Tyr
 340 345 350

Val Ser Gly Trp Gly Arg Val Phe His Lys Gly Arg Ser Ala Leu Val
 355 360 365

Leu Gln Tyr Leu Arg Val Pro Leu Val Asp Arg Ala Thr Cys Leu Arg
 370 375 380

Ser Thr Lys Phe Thr Ile Tyr Asn Asn Met Phe Cys Ala Gly Phe His
 385 390 395 400

Glu Gly Gly Arg Asp Ser Cys Gln Gly Asp Ser Gly Gly Pro His Val
 405 410 415

Thr Glu Val Glu Gly Thr Ser Phe Leu Thr Gly Ile Ile Ser Trp Gly
 420 425 430

Glu Glu Cys Ala Met Lys Gly Lys Tyr Gly Ile Tyr Thr Lys Val Ser
 435 440 445

Arg Tyr Val Asn Trp Ile Lys Glu Lys Thr Lys Leu Thr
 450 455 460

<210> 22

<211> 2775

<212> DNA

<213> Homo Sapien

<400> 22

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1087

88

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89